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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- of inventorship (Rule 4.17(iv)) for US only

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CALCIUM, POTASSIUM, ZINC, LITHIUM AND ALUMINIUM SALTS OF PANTOPRAZOLE AND (S)-PANTOPRAZOLE

(57) Abstract: The invention relates to calcium, potassium, zinc, lithium and aluminium salts of pantoprazole and (S)-pantoprazole salts and to medicaments comprising these compounds.

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP2005/050334

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/4439 A61P1/04 C07D401/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A61P C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94/24867 A (SEPRACOR INC) 10 November 1994 (1994-11-10) cited in the application Claims, examples	1-11
X	WO 99/27917 A (BYK GULDEN LOMBERG CHEM FAB ; NEY HARTMUT (DE); DIETRICH RANGO (DE)) 10 June 1999 (1999-06-10) cited in the application abstract; claim 5	1-11
X	WO 02/45686 A (BYK GULDEN LOMBERG CHEM FAB ; LINDER RUDOLF (DE); DIETRICH RANGO (DE)) 13 June 2002 (2002-06-13) cited in the application page 5, paragraph 3	1-11
-/-		

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another claim or other special reason (see specification)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Date of the actual completion of the international search

17 May 2005

Date of mailing of the international search report

08. 08. 2005

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/050334

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 2004/013126 A (HUMMEL ROLF-PETER ; HANAUER GUIDO (DE); KOHL BERNHARD (DE); MUELLER BE) 12 February 2004 (2004-02-12) cited in the application page 3, line 6	1-3
A	WO 00/10995 A (BYK GULDEN LOMBERG CHEM FAB ; KOHL BERNHARD (DE)) 2 March 2000 (2000-03-02) cited in the application claims 1-3	1-11

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2005/050334

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; It is covered by claims Nos.:

1-11 (in part)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-11 (in part)

Calcium salts of pantoprazole and (S)-pantoprazole and hydrates thereof and subject-matter related to these compounds.

2. claims: 1-11 (in part)

Potassium salts of pantoprazole and (S)-pantoprazole and hydrates thereof and subject-matter related to these compounds.

3. claims: 1-11 (in part)

Zinc salts of pantoprazole and (S)-pantoprazole and hydrates thereof and subject-matter related to these compounds.

4. claims: 1-11 (in part)

Lithium salts of pantoprazole and (S)-pantoprazole and hydrates thereof and subject-matter related to these compounds.

5. claims: 1-11 (in part)

Aluminium salts of pantoprazole and (S)-pantoprazole and hydrates thereof and subject-matter related to these compounds.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/050334

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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